

DIRECTIVES, INSTRUCTIONS, POLICIES, AND REGULATIONS

I. REFERENCES

- A. The work at ARC requires compliance to many different standards and codes. Typical of the standards and codes that may be imposed on the Contractor are:
1. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (CAL-OSHA): Division of Industrial Safety, Title 8. Division 1, Chapter 4, "Industrial Safety"
 2. FACTORY MUTUAL ENGINEERING CORPORATION (FM): Factory Mutual Approval Guide
 3. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA):
 - (a) APR 1700.1 NASA Ames Health & Safety Manual
 - (b) (1994) Moffett Federal Airfield Planning Guidelines and Standards
 - (c) Goals and Policies for Historic Preservation of the Shenandoah Plaza Historic District
 - (d) NASA Ames Research Center Construction Standards, Specs In Tact
 - (e) NASA Reliability Centered Maintenance Guide for Facilities and Collateral Equipment
 - (f) NASA Reliability Centered Building and Equipment Acceptance (RCB&EA) Guide
 - (g) NASA-STD-8719.9, NASA Standard for Lifting Devices and Equipment.
 - (h) NPD 8831.1E Maintenance and Operations of Institutional and Program Facilities and Related Equipment
 - (i) NPD 8700.1 NASA Policy for Safety and Mission Success
 - (j) NPR 8570.1 Energy Efficiency and Water Conservation Technologies and Practices
 - (k) NPR 8831.2E NASA Facilities Maintenance and Operations Management
 4. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
 - (a) NFPA 1 Fire Code
 - (b) NFPA 13 Standard for the Installation of Sprinkler Systems
 - (c) NFPA 17A Standard for Wet Chemical Extinguishing Systems
 - (d) NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection
 - (e) NFPA 25 Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems
 - (f) NFPA 70 National Electrical Code
 - (g) NFPA 70B Recommended Practice for Electrical Equipment Maintenance
 - (h) NFPA 70E Standard for Electrical Safety in the Workplace
 - (i) NFPA 72 Installation, Maintenance, and Use of Protective Signaling Systems
 - (k) NFPA 101 Life Safety Code
 - (l) NFPA 110 Standard for Emergency and Standby Power Systems
 - (m) NFPA 409 Standard on Aircraft Hangars
 - (n) NFPA 1221 Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems

5. UNDERWRITERS' LABORATORIES, INC. (UL):
 - (a) Fire Protection Equipment Directory
 - (b) UL Signaling Applications For the Hearing Impaired
6. U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): CFR 29 PART 1910, General Industry Safety and Health Standards

II. ENVIRONMENTAL PROTECTION

- A. Regulation Compliance. All environmental health and safety work shall be consistent with and in strict compliance with all NASA Health and Safety Manual requirements, and pertinent Federal, State, and local laws and regulations related to environmental management, pollution control and prevention, and protection of natural and cultural resources including, but not limited to, the following programs:
 1. Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 and the Water Quality Act of 1987 (33 U.S.C. 1251 et seq.).
 2. Clean Air Act, as amended by the Clean Air Act of 1977, and the Clean Air Act of 1990 (42 U.S.C. 7401 et seq.).
 3. Resource Conservation and Recovery Act of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984 (42 U.S.C. 6901 et seq.).
 4. Marine Protection, Research, and Sanctuaries Act of 1972, as amended (33 U.S.C. 1401 et seq., and 16 U.S.C. 1431 et seq.).
 5. The Safe Drinking Water Act, as amended (42 U.S.C. 300f et seq.).
 6. Toxic Substances Control Act, as amended (15 U.S.C. 2601 et seq.).
 7. Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (42 U.S.C. 9601 et seq.), including the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C. 11001 et seq.).
 8. National Environmental Policy Act of 1969 (42 U.S.C. 4321-4347).
 9. National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 et seq.).
 10. Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469).
 11. Archaeological Resources Protection Act of 1979 (16 U.S.C. 470aa-47011).
 12. Native American Graves Protection and Repatriation Act of 1990 (25 U.S.C. 3001 et seq.).
 13. Fish and Wildlife Coordination Act (16 U.S.C. 661-666c).
 14. Fish and Wildlife Conservation Act.
 15. Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.).
 16. Migratory Bird Treaty Act (16 U.S.C. 703 et seq.).
 17. Pollution Prevention Act of 1990 (42 U.S.C. 13101 et seq.).

18. Oil Pollution Act of 1990.
19. Coastal Management Zone Act of 1972, as amended (16 U.S.C. 1451 et seq.).
20. Farmland Protection Policy Act (7 U.S.C. 4201 et seq.).
21. Federal Facility Compliance Act of 1992 (Public Law 102-386).
22. Office of Management and Budget (OMB) Circular No. A-106, dated December 31, 1974.
23. Executive Order 12088, amended by Executive Order 12580, Federal Compliance with Pollution Control Standards.
24. Executive Order 11990, Protection of Wetlands.
25. Executive Order 12873 of October 20, 1993, Federal Acquisition, Recycling and Waste Prevention.
26. Executive Order 12856 of August 3, 1993, Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements.
27. Executive Order 12843 of April 21, 1993, Procurement Requirements and Policies for Federal Agencies for Ozone Depleting Substances.
28. Executive Order 12902 of March 10, 1994, Energy Efficiency and Water Conservation Act.
29. Executive Memorandum of April 26, 1994, Environmentally and Economically Beneficial Practices on Federal Landscaped Grounds.
30. State and local laws and regulations related to pollution abatement, prevention, and control, as may be applicable to the Federal Government:
 - (a) California Code of Regulations, Title 26, Toxics
 - (b) California Code of Regulations, Title 23, Waters
 - (c) California Code of Regulations, Title 22, Environmental Health
 - (d) California Code of Regulations, Title 17 Air Resources Board
 - (e) California Health and Safety Code
 - (f) Santa Clara County Hazardous Material Storage Ordinance
 - (g) Santa Clara County Toxic Gas Ordinance
 - (h) Palo Alto Regional Water Quality Control Plant, Waste Water Discharge Requirements
 - (j) City of Sunnyvale, Waste Water Discharge Requirements
 - (k) City of Mountain View, Industrial Waste Ordinance
31. Environmental Excellence for the Twenty-First Century, NASA Strategy Document.
32. NASA Policy Directive (NPD) 8800.16, NASA Environmental Management.
33. NASA Handbook 8800.11, Implementing the Provisions of the National Environmental Policy Act.
34. Ames Management Instruction (AMI) 8800.4, Ames Environmental Programs.

- 35. Federal Acquisition Regulation (FAR) Part 7, FAR Part 23, and NASA FAR Supplement Part 18-23.
- 36. McAteer-Petris Act.
- 37. Federal Insecticide, Fungicide, and Rodenticide Act. (FIFRA)

B. Policy. It is NASA ARC policy to:

- 1. Comply with all pertinent statutory and regulatory environmental requirements and Executive Orders. Environmental requirements encompass issues related to environmental management including but not limited to energy efficiency and water conservation, hazardous waste management, protection of cultural and natural resources, environmental justice, restoration and remediation of contaminated sites, and pollution prevention. ARC recognizes and complies with applicable Federal, State, local, and territorial environmental regulations.
- 2. Give significant consideration to environmental factors at every step in program development and execution. This requirement will include life cycle analysis of costs and environmental impacts of program and process alternatives. Review of this requirement will be a regular part of the program management process.
- 3. Consult, as appropriate, with Federal, State, and local agencies, and NASA health and safety rules and regulations including the following concerning the best techniques and methods to prevent, control, and abate environmental pollution, and to protect natural and cultural resources.
 - (a) U.S. Environmental Protection Agency (EPA)
 - (b) U.S. Fish and Wildlife Service
 - (c) U.S. Army Corps of Engineers
 - (d) Advisory Council on Historic Preservation
 - (e) California Department of Toxic Substance Control (DTSC)
 - (f) California Regional Water Quality Control Board, San Francisco Bay Region and Central Valley Region (RWQCB)
 - (g) California Department of Fish and Game
 - (h) State Office of Historic Preservation (SHPO)
 - (j) Bay Conservation and Development Commission (BCDC)
 - (k) Bay Area Air Quality Management District (BAAQMD)
 - (l) San Joaquin Valley Unified Air Pollution Control District
 - (m) Santa Clara Valley Water District
 - (n) Santa Clara County Health Department
 - (p) Stanislaus County Health Department
 - (q) Santa Clara County Humane Society
 - (r) Palo Alto Regional Water Quality Control Plant
 - (s) Sunnyvale Waste Water Treatment Plant
 - (t) Ames Environmental Procedural Requirements, APR 8800.3
- 4. Promote employee awareness of environmental regulations through training and dissemination of active information.